



FCC PART 15.249 RSS-GEN ISSUE 4, NOVEMBER 2014 RSS-210, ISSUE 9, AUGUST 2016

TEST REPORT

For

Flyability SA

Flyability SA, Avenue de Sevelin 20, Lausanne, Switzerland, CH-1004

FCC ID: 2AL7M-MAGICREMOTE IC: 22887-MAGICREMOTE

Report Type: Product Name:

Class II permissive change Range Extender (REx) Remote Control

Report Number: RDG180417005-00BA2

Report Date: 2018-05-08

Jerry Zhang

Jerry Zhang

Reviewed By: EMC Manager

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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan). This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA* or any agency of the Federal Government. * This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*".

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| EUT Name: | Range Extender (REx) Remote Control |
|----------------------|---|
| EUT Model: | No.3 |
| FCC ID: | 2AL7M-MAGICREMOTE |
| IC: | 22887-MAGICREMOTE |
| Rated Input Voltage: | DC 7.4V from lithium rechargeable battery DC 26.3V/26.1V from DC port |
| External Dimension: | 18.2cm (L) x17.14 cm (W) x 10.52 cm(H) |
| Serial Number: | 180417005 |
| EUT Received Date: | 2018-04-17 |

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Objective

This type approval report is prepared on behalf of *Flyability SA* in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules, RSS-210, Issue 9, AUGUST 2016 of the Innovation, Science and Economic Development Canada.

The tests were performed in order to determine compliance with FCC Rules Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.249 rules.

This is Class II permissive change Application, the difference with the original is:

- 1. Changed the 2.4GHz antenna type from PCB to Dipole,
- 2. Changed the 5.8GHz antenna and it's location
- 3. The interface board.

The changes are not related with the other RF parameters, only RF exposure and radiation emissions were retested.

Related Submittal(s)/Grant(s)

FCC Part 15C DTS submissions with FCC ID: 2AL7M-MAGICREMOTE . ISEDC RSS-247 submissions with IC: 22887-MAGICREMOTE

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, and the RSS-210, Issue 9, AUGUST 2016. Applicable Standard: Licence-Exempt Radio Apparatus: Category I Equipment

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

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Measurement Uncertainty

| Parameter | Measurement Uncertainty | | | |
|--------------------------------------|--|--|--|--|
| Occupied Channel Bandwidth | ±5 % | | | |
| Unwanted Emissions, radiated | 30M~200MHz: 4.55 dB,200M~1GHz: 5.92 dB,1G~6GHz: 4.98 dB, | | | |
| Offwanted Emissions, radiated | 6G~18GHz: 5.89 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB | | | |
| Temperature | ±1℃ | | | |
| Humidity | ±5% | | | |
| DC and low frequency voltages | ±0.4% | | | |
| Duty Cycle | 1% | | | |
| AC Power Lines Conducted Emission | 3.12 dB (150 kHz to 30 MHz) | | | |

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Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062D.

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SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

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The system employed 17 channels in the frequency range 5738-5808MHz, which were provided by the manufacturer:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| 1 | 5738 | 6 | 5762 | 11 | 5783 | 16 | 5803 |
| 2 | 5743 | 7 | 5763 | 12 | 5788 | 17 | 5808 |
| 3 | 5748 | 8 | 5768 | 13 | 5793 | / | / |
| 4 | 5753 | 9 | 5773 | 14 | 5796 | / | / |
| 5 | 5758 | 10 | 5778 | 15 | 5798 | / | / |

EUT was tested with Channel 5738 MHz, 5773 MHz and 5808 MHz

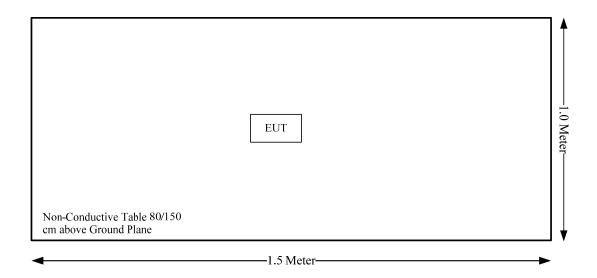
EUT Exercise Software

The software: SScom32 was used in the test. The system configured maximum power as default setting and switched the channel by software commands.

Equipment Modifications

No modifications were made to the EUT.

Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

| Rules | Description of Test | Result |
|--|------------------------|-----------------|
| FCC§15.203 RSS-GEN§8.3 | Antenna Requirement | Compliance |
| RSS-102 §4 | RF Exposure | Compliance |
| FCC§15.207(a) & RSS-Gen §8.8 | Conduction Emissions | Not Applicable* |
| FCC15.205, §15.209, §15.249& RSS- 210 §B10, RSS-Gen§8.9 | Radiated Emissions | Compliance |
| FCC§15.215 (c) | 20 dB Bandwidth | Compliance* |
| RSS-Gen §6.6 | 99% Occupied Bandwidth | Compliance* |

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Note:

Not applicable*: The device was powered by battery when user operats the device. Compliance*: The Class II permissive change Application have not effected the result.

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FCC §15.203 ,RSS-GEN§8.3- ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

According to RSS-Gen §8.3, The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi).

Antenna Connector Construction

The EUT has an internal PCB antenna for 5.8GHz, the antenna gain is 1.5 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

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RSS-102 §4- RF EXPOSURE

Applicable Standard

According to RSS-102 §4 Table 3, SAR limits for device used by the general public

| Body Region | Average SAR (W/Kg) | Averaging Time (minutes) | Mass Average (g) |
|--------------------------------|-----------------------|--------------------------|---------------------|
| Whole Body | 0.08 | 6 | Whole Body |
| Localized Head, Neck and Trunk | 1.6 | 6 | 1 |
| Localized Limbs | 4 | 6 | 10 |

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Test Result

Compliant, please refer to the SAR report: RDG180417005-20A2.

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FCC§15.205, §15.209&§15.249 & RSS-210 §B10&RSS-GEN§8.9 - RADIATED EMISSIONS

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Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental Field strength of fundamental frequency (millivolts/meter) | | Field strength of harmonics (microvolts/meter) |
|--|-----|---|
| 902–928 MHz | 50 | 500 |
| 2400-2483.5 MHz | 50 | 500 |
| 5725–5875 MHz | 50 | 500 |
| 24.0–24.25 GHz | 250 | 2500 |

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

According to RSS-210 §B10

Devices shall comply with the following requirements:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not (a)exceed 50 mV/m and 0.5 mV/m respectively.

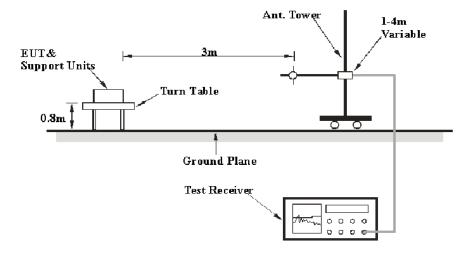
The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, RSS-Gen, whichever are the lesser attenuation.

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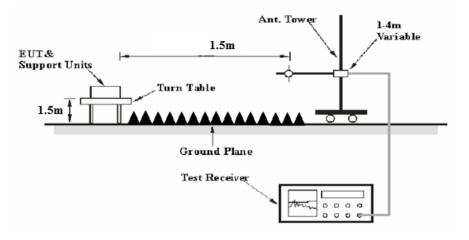
EUT Setup

Below 1 GHz:

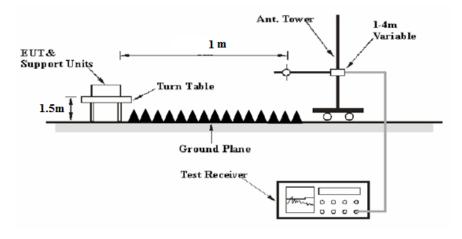


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1-26.5 GHz:



26.5-40 GHz:



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The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.249 and RSS-210, RSS-Gen limits.

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The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

Test Equipment Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range | RBW | Video B/W | IF B/W | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz | 120 kHz | QP |
| Above 1 CHr | 1MHz | 3 MHz | / | PK |
| Above 1 GHz | 1MHz | 10 Hz | / | AV |

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30 MHz to 1GHz, peak and average detection mode above 1 GHz.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1.5m or 1m

Distance extrapolation factor =20 \log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB or

Distance extrapolation factor =20 log (specific distance [3m]/test distance [1m]) dB= 9.54 dB

All emissions under the average limit and under the noise floor have not recorded in the report.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit –Corrected Amplitude

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Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------------------|-------------------|-----------------------------|--------------------|---------------------|-------------------------|
| R&S | EMI Test Receiver | ESCI | 100224 | 2017-09-01 | 2018-09-01 |
| Sunol Sciences | Antenna | JB3 | A060611-1 | 2017-11-10 | 2018-11-10 |
| HP | Amplifier | 8447D | 2727A05902 | 2017-09-05 | 2018-09-05 |
| Agilent | Spectrum Analyzer | E4440A | SG43360054 | 2018-01-04 | 2019-01-04 |
| ETS-Lindgren | Horn Antenna | 3115 | 000 527 35 | 2016-01-05 | 2019-01-04 |
| MITEQ | Amplifier | AFS42-00101800- 25-S-42 | 2001271 | 2017-09-05 | 2018-09-05 |
| Ducommun | Horn Antenna | ARH-4223-02 | 1007726-01 1304 | 2016-11-18 | 2019-11-18 |
| Ducommun Technolagies | Horn Antenna | ARH-2823-02 | 1007726-01 1302 | 2016-11-18 | 2019-11-18 |
| Quinstar | Amplifier | QLW-18405536-JO | 15964001001 | 2017-06-27 | 2018-06-27 |
| Sinoscite | Bandstop Filters | BSF5150-5850MN- 0899-003 | 0899003 | 2017-05-06 | 2018-05-06 |
| Mini Circuits | High Pass Filter | VHF-6010+ | 31118 | 2017-06-16 | 2018-06-16 |
| N/A | Coaxial Cable | C-NJNJ-50 | C-0400-01 | 2017-09-05 | 2018-09-05 |
| N/A | Coaxial Cable | C-NJNJ-50 | C-0075-01 | 2017-09-05 | 2018-09-05 |
| N/A | Coaxial Cable | C-NJNJ-50 | C-1000-01 | 2017-09-05 | 2018-09-05 |
| Unknown | Coaxial Cable | C-SJSJ-50 | C-0800-01 | 2017-09-05 | 2018-09-05 |
| Unknown | Coaxial Cable | C-2.4J2.4J-50 | C-0700-02 | 2017-06-27 | 2018-06-27 |
| Farad | Test Software | EZ-EMC | V1.1.4.2 | N/A | N/A |

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Test Data

Environmental Conditions

| Temperature: | 28.3 °C | |
|--------------------|-----------|--|
| Relative Humidity: | 60 % | |
| ATM Pressure: | 100.8 kPa | |

The testing was performed by Blake Yang on 2018-05-04.

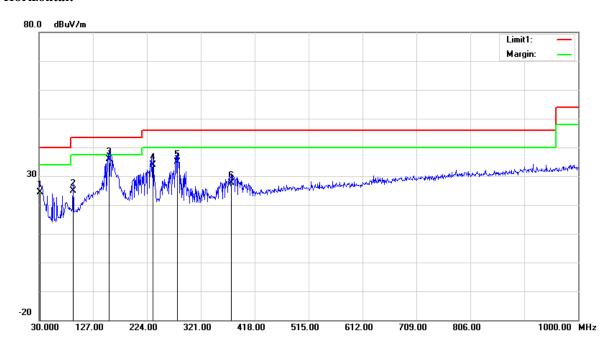
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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Mode: Transmitting

1) 30MHz-1GHz(Worst Case at Middle Channel)

Horizontal:

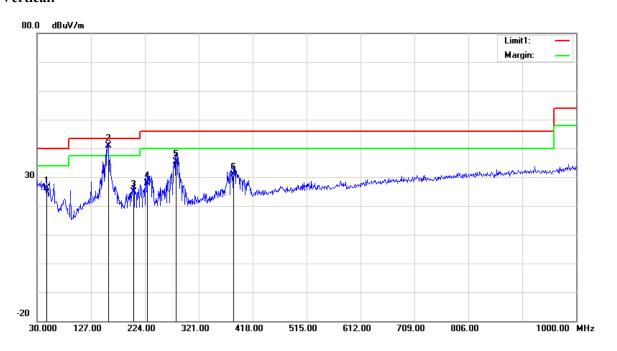


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| Frequency (MHz) | Receiver Reading (dBuV) | Detector | Correction Factor (dB/m) | Cord. Amp. (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|-------------------------------|----------|--------------------------------|---------------------------|-------------------|----------------|
| 31.9400 | 24.20 | QP | 0.10 | 24.30 | 40.00 | 15.70 |
| 91.1100 | 36.08 | QP | -11.18 | 24.90 | 43.50 | 18.60 |
| 156.1000 | 41.84 | QP | -5.94 | 35.90 | 43.50 | 7.60 |
| 234.6700 | 40.34 | QP | -6.44 | 33.90 | 46.00 | 12.10 |
| 279.2900 | 38.94 | QP | -4.14 | 34.80 | 46.00 | 11.20 |
| 376.2900 | 30.33 | QP | -2.63 | 27.70 | 46.00 | 18.30 |

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Vertical:



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| Frequency (MHz) | Receiver Reading (dBuV) | Detector | Correction Factor (dB/m) | Cord. Amp. (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------------|-------------------------------|----------|--------------------------------|---------------------------|-------------------|----------------|
| 47.4600 | 36.50 | QP | -10.40 | 26.10 | 40.00 | 13.90 |
| 158.0400 | 46.89 | QP | -5.89 | 41.00 | 43.50 | 2.50 |
| 203.6300 | 31.36 | QP | -6.36 | 25.00 | 43.50 | 18.50 |
| 227.8800 | 34.67 | QP | -6.67 | 28.00 | 46.00 | 18.00 |
| 280.2600 | 39.53 | QP | -4.13 | 35.40 | 46.00 | 10.60 |
| 383.0800 | 33.48 | QP | -2.48 | 31.00 | 46.00 | 15.00 |

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2) 1GHz-25GHz:

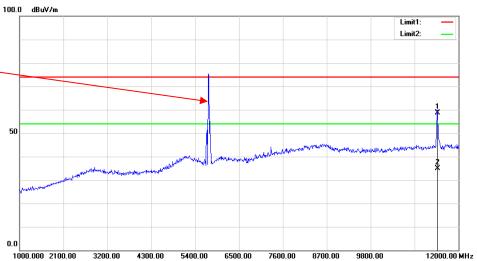
| Frequency (MHz) | Receiver | | Rx Antenna | | Cable | Amplifier | Corrected | Extrapolation | T | |
|--------------------------|----------|----------|------------|--------|-------|-----------|-----------|--------------------|-------------------|-------------|
| | Reading | Detector | Polar | Factor | loss | Gain | Amplitude | result (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
| (3:332) | (dBµV) | Detector | (H/V) | (dB/m) | (dB) | (dB) | (dBµV/m) | (авµ v/m) | (,) | (") |
| Low Channel: 5738 MHz | | | | | | | | | | |
| 5738.00 | 73.11 | PK | Н | 34.20 | 3.69 | 0.00 | 111.00 | 104.98 | 113.98 | 9.00 |
| 5738.00 | 45.07 | AV | Н | 34.20 | 3.69 | 0.00 | 82.96 | 76.94 | 93.98 | 17.04 |
| 5738.00 | 69.51 | PK | V | 34.20 | 3.69 | 0.00 | 107.40 | 101.38 | 113.98 | 12.60 |
| 5738.00 | 41.67 | AV | V | 34.20 | 3.69 | 0.00 | 79.56 | 73.54 | 93.98 | 20.44 |
| 5725.00 | 29.44 | PK | Н | 34.19 | 3.69 | 0.00 | 67.32 | 61.3 | 74.00 | 12.70 |
| 5725.00 | 15.46 | AV | Н | 34.19 | 3.69 | 0.00 | 53.34 | 47.32 | 54.00 | 6.68 |
| 11476.00 | 63.53 | PK | Н | 38.98 | 6.59 | 37.35 | 71.75 | 65.73 | 74.00 | 8.27 |
| 11476.00 | 38.72 | AV | Н | 38.98 | 6.59 | 37.35 | 46.94 | 40.92 | 54.00 | 13.08 |
| 17214.00 | 56.12 | PK | Н | 41.44 | 8.78 | 38.62 | 67.72 | 61.7 | 74.00 | 12.30 |
| 17214.00 | 31.87 | AV | Н | 41.44 | 8.78 | 38.62 | 43.47 | 37.45 | 54.00 | 16.55 |
| Middle Channel: 5773 MHz | | | | | | | | | | |
| 5773.00 | 73.82 | PK | Н | 34.21 | 3.70 | 0.00 | 111.73 | 105.71 | 113.98 | 8.27 |
| 5773.00 | 45.68 | AV | Н | 34.21 | 3.70 | 0.00 | 83.59 | 77.57 | 93.98 | 16.41 |
| 5773.00 | 71.04 | PK | V | 34.21 | 3.70 | 0.00 | 108.95 | 102.93 | 113.98 | 11.05 |
| 5773.00 | 43.27 | AV | V | 34.21 | 3.70 | 0.00 | 81.18 | 75.16 | 93.98 | 18.82 |
| 11546.00 | 63.15 | PK | Н | 39.00 | 6.60 | 37.41 | 71.34 | 65.32 | 74.00 | 8.68 |
| 11546.00 | 37.16 | AV | Н | 39.00 | 6.60 | 37.41 | 45.35 | 39.33 | 54.00 | 14.67 |
| 17319.00 | 57.61 | PK | Н | 42.05 | 8.80 | 38.55 | 69.91 | 63.89 | 74.00 | 10.11 |
| 17319.00 | 32.84 | AV | Н | 42.05 | 8.80 | 38.55 | 45.14 | 39.12 | 54.00 | 14.88 |
| High Channel: 5808 MHz | | | | | | | | | | |
| 5808.00 | 70.90 | PK | Н | 34.22 | 3.72 | 0.00 | 108.84 | 102.82 | 113.98 | 11.16 |
| 5808.00 | 42.91 | AV | Н | 34.22 | 3.72 | 0.00 | 80.85 | 74.83 | 93.98 | 19.15 |
| 5808.00 | 68.08 | PK | V | 34.22 | 3.72 | 0.00 | 106.02 | 100 | 113.98 | 13.98 |
| 5808.00 | 40.73 | AV | V | 34.22 | 3.72 | 0.00 | 78.67 | 72.65 | 93.98 | 21.33 |
| 5875.00 | 25.58 | PK | Н | 34.25 | 3.77 | 0.00 | 63.60 | 57.58 | 74.00 | 16.42 |
| 5875.00 | 15.11 | AV | Н | 34.25 | 3.77 | 0.00 | 53.13 | 47.11 | 54.00 | 6.89 |
| 11616.00 | 63.30 | PK | Н | 39.00 | 6.63 | 37.49 | 71.44 | 65.42 | 74.00 | 8.58 |
| 11616.00 | 38.24 | AV | Н | 39.00 | 6.63 | 37.49 | 46.38 | 40.36 | 54.00 | 13.64 |
| 17424.00 | 58.46 | PK | Н | 42.66 | 8.83 | 38.47 | 71.48 | 65.46 | 74.00 | 8.54 |
| 17424.00 | 33.27 | AV | Н | 42.66 | 8.83 | 38.47 | 46.29 | 40.27 | 54.00 | 13.73 |

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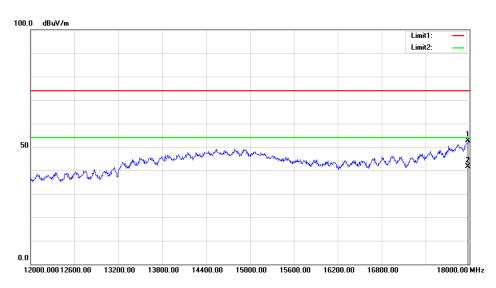
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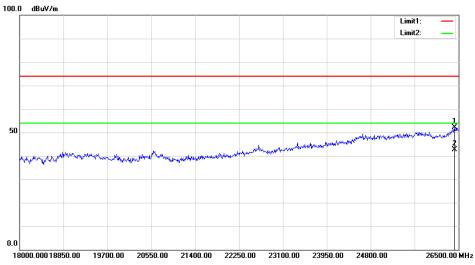
Test plots at Low Channel Horizontal

Fundamental Test with Band Rejection Filter

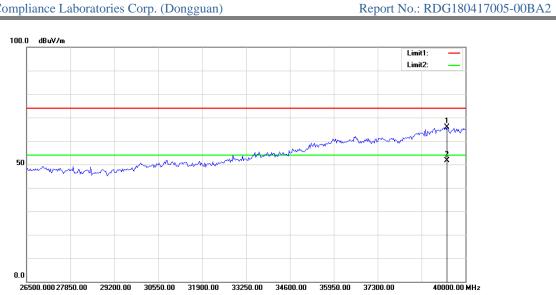


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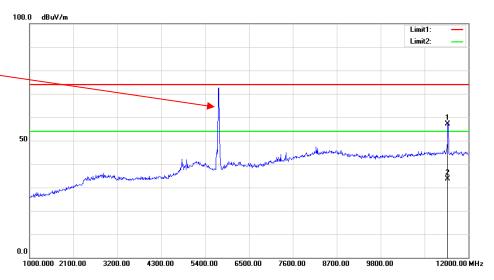


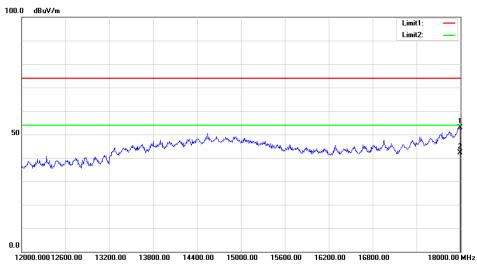
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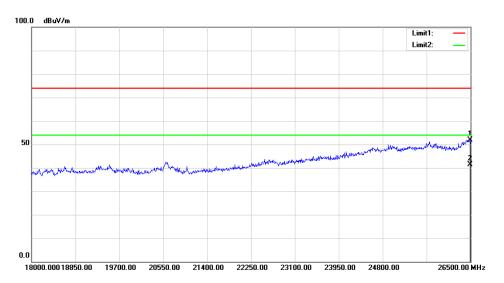
Vertical

Fundamental Test with Band Rejection Filter

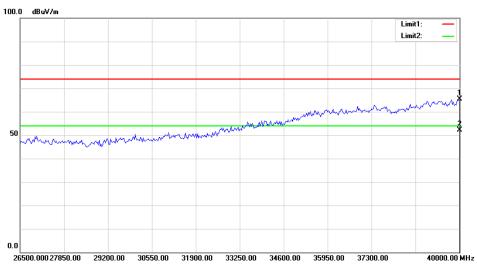




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